

2047 -01-00

EPA REGION-9 SUPERFUND RECORDS CENTER



2047-00100

WASTE DISPOSAL INC

PROPERTY OF EPA REGION 9

HAZARDOUS WASTE MANAGEMENT DIVISION



**PLEASE RETURN TO RECORDS CENTER
215 FREMONT STREET
SAN FRANCISCO, CALIFORNIA 94105**

August 31, 1984

SFUND RECORDS CTR
2047-00100

ReDevelopment Agency
City of Santa Fe Springs
11710 Telegraph Road
Santa Fe Springs, California 90670

Attention: Mr. Richard H. Weaver
Director

Proposal
Initial Subsurface Investigation
Waste Disposal Inc. Site
Santa Fe Springs, California
For the ReDevelopment Agency
City of Santa Fe Springs

INTRODUCTION

Dames & Moore is pleased to submit this proposal to conduct an initial investigation of subsurface conditions at the former Waste Disposal Inc. site located at, Los Nietos Road and Greenleaf Avenue in Santa Fe Springs, California. In developing this proposal we have considered information gained from: (1) files of the Toxic Substances Control Division of the Department of Health Services (DHS); (2) historic aerial photographs; (3) discussions with the Fire Chief of Santa Fe Springs and current owners of the subject site; and, (4) discussions with Messrs. Weaver and Beaty of the ReDevelopment Agency.

BACKGROUND

Available historical information assembled by the DHS indicates that the subject site is a subsurface, concrete-lined reservoir and likely began receiving wastes in the 1930s the reservoir was probably used as a crude oil storage reservoir similar to the companion reservoir located to the northwest. From the 1930s to the late 1950s the decommissioned reservoir served as a disposal site for a variety of wastes including:

Nov/94
DHS
LA Reg. office
sent by
Steve Lavinger

City of Santa Fe Springs
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1. petroleum refinery tank bottoms;
2. steel mill slag;
3. brewery wastes;
4. cesspool sewage; and
5. miscellaneous solid and liquid wastes.

Subsequent to the late 1950s, the disposal site received principally waste drilling muds from oil field drilling operations. Minor amounts of construction debris (wood debris, concrete rubble) were also disposed at the site during this time.

Historical aerial photographs show several sumps between the reservoir and Los Nietos Road and Greenleaf Avenue. The sumps are considerably smaller in volume than the main disposal site and probably received fluids (largely water) intermittently from the main disposal reservoir. In addition, aerial photographs show small outwash features originating at the northwest and southeast margin of the reservoir.

In the 1960s, disposal activities waned and by 1965 a soil mantle (cover) was placed over the reservoir. The site is presently undeveloped.

PURPOSE

Available data indicate that some of the wastes disposed in the reservoir and peripheral sumps are likely to contain hazardous compounds. In order to definitively establish whether hazardous wastes are present, and if so, their chemical composition, a program of waste sampling and waste sample analysis must be performed. Accordingly we proposed to conduct a limited investigation aimed at assessing the chemical character of wastes or waste constituents within and peripheral to the reservoir. We point out that the proposed

investigation is not intended to be an exhaustive evaluation of the chemical composition and distribution of all wastes or waste constituents presently at the site. Rather, the proposed investigation is intended to:

1. provide a vertical profile of the chemical character of waste encountered in a single boring in the main reservoir; and
2. provide an indication of the presence and chemical waste characteristics of waste and/or waste constituents at three locations immediately outside the reservoir.

The scope of the proposed investigation is outlined below. An elapsed time schedule and cost estimate for the proposed services are summarized in the subsequent section.

TECHNICAL WORK PLAN

Waste and Soil Sampling

Borings will be advanced at four locations as shown in Figure 1. One boring (DMEB-1) will be positioned near the center of the reservoir and three borings (DMEB-2 through 4) will be located roughly northwest, northeast, southeast of the reservoir. Boring DMEB-1 will be advanced to the concrete base of the reservoir which is anticipated to be approximately 25 to 30 feet below the ground surface. The peripheral borings will be advanced to a depth of 30 to 35 feet. Available data indicate that ground water may be as shallow as 50 feet below the ground surface. Due to the uncertainty of the exact depth to ground water, the peripheral borings will be terminated at 30 to 35 feet to minimize the potential of transporting waste or waste constituents to ground water via the boring.

All borings will be drilled under the technical supervision of a Dames & Moore geologist using hollow stem auger drilling equipment. This drilling method allows the collection of undisturbed samples without having to remove the auger from the borehole. Following completion of boring and sampling, each bore hole will be backfilled with cement. Drill cuttings removed from each boring will be placed in drums which will be appropriately sealed and labeled. Disposal of the drums, either as a refuse or hazardous waste (depending on the results of the chemical testing), will be the responsibility of the ReDevelopment Agency.

Waste and soil samples will be collected at 2 1/2 foot intervals in each boring. Samples will be collected utilizing a Dames & Moore U-type or equivalent sampler fitted with stainless steel inserts. Samples will be retained in the inserts or transferred to wide-mouth glass jars with teflon-lined screw caps, depending on the physical character of the sampled material. Appropriately packaged and labeled samples will be stored in the field in ice-chests cooled with blue ice. Chain of custody records for collected samples will be completed and stored in the ice chest with the samples. Samples and chain of custody records will be shipped to the analytical laboratory at the end of each day.

A Dames & Moore geologist will prepare a detailed log. In addition, a portable organic vapor analyzer (HNu) will be used to measure the concentration of organic vapors emitted from each sample. All field activities will be conducted in accordance with a Health and Safety Plan developed specifically for the proposed investigation.

Analytical Program

Chemical testing of selected samples or composites of samples will be performed by California Analytical Laboratories of Sacramento, California. On

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the basis of available information regarding potential waste materials disposed at the subject site, we propose to analyze samples for Priority Pollutant Organics (U.S. EPA) and total CAM Inorganics*.

For the purposes of estimating program schedule and cost, we propose to analyze a maximum of 7 samples, 4 from DMEB-1 and one each from DMEB-2 through 4. Because the main disposal reservoir received a large quantity and variety of wastes over its history, we believe it would be desirable to composite all of samples and borings from each 7 to 8 foot interval of Boring DMEB-01. Accordingly, the 25 to 30 foot vertical profile of wastes would be chemically characterized on the basis of four composite samples. A single sample or composite of several samples from each of the peripheral borings will be tested for the same organic and inorganic compounds. We point out that schedules of samples and sample composites to be analyzed should be based on final observations and organic vapor emission measurements from all borings.

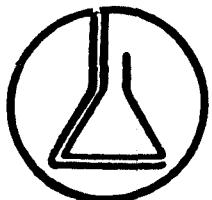
Report Preparation

Following receipt of all chemical test results, a draft summary of findings will be prepared for your review and comment. This report will contain a summary or descriptions of:

1. field drilling and sample collection procedures;
2. sample composition procedures and rational;
3. analytical procedures;
4. waste and/or geologic materials encountered; and
5. analytical results.

If desired, we will provide recommendations regarding further investigations.

* CAM Inorganics - California Assessment Manual list of persistent and bioaccumulative inorganic compounds.



California Analytical Laboratories, Inc.
2544 Industrial Boulevard • West Sacramento, CA 95691 • (916) 372-1393

October 31, 1984
Lab No. 19403
Received: 9/28/84
Job No. 13262-005-01

Robert E. Troutman
812 Anacapa St. Suite A
Santa Barbara, CA 93101

Twenty-eight soil samples received in six inch plastic core tubes
to be analyzed for CAM metals, EPA Method 624 and 625.

S: SINGLE SAMPLE
C: COMPOSITE SAMPLE

CAL I.D.		Sample I.D.				
19403-1	DMEB-1-1	3.5	soil	9/24/84	14:50	HOLD
-2	DMEB-1-2	7.5	soil	9/24/84	15:05	HOLD
-3	S → DMEB-1-3	10.0	soil	9/24/84	15:15	
-4	T DMEB-1-4	12.5	soil	9/24/84	15:40	
-5	C DMEB-1-5	15	soil	9/24/84	16:00	COMPOSITED
-6	I DMEB-1-6	17.5	soil	9/24/84	16:15	
-7	I DMEB-1-7	20	soil	9/24/84	16:40	
-8	T DMEB-2-1	5	soil	9/25/84	10:30	
-9	C DMEB-2-2	7.5	soil	9/25/84	10:45	COMPOSITED
-10	I DMEB-2-3	10	soil	9/25/84	11:00	
-11	I DMEB-2-4	12.5	soil	9/25/84	11:10	
-12	DMEB-2-5	15	soil	9/25/84	11:15	HOLD
-13	S → DMEB-2-6	17.5	soil	9/25/84	11:25	
-14	DMEB-3-1	2.5	soil	9/26/84	08:15	HOLD
-15	DMEB-3-5	12.5	soil	9/26/84	10:25	HOLD
-16	DMEB-3-6	15	soil	9/26/84	10:35	HOLD
-17	DMEB-3-7	17.5	soil	9/26/84	10:45	HOLD
-18	DMEB-3-8	20	soil	9/26/84	11:35	HOLD
-19	S → DMEB-3-9	22.5	soil	9/26/84	11:45	
-20	S → DMEB-3-10	11	soil	9/26/84	14:50	
-21	DMEB-4-1	2.5	soil	9/26/84	12:35	HOLD
-22	S → DMEB-4-2	5	soil	9/26/84	12:45	
-23	DMEB-4-3	7.5	soil	9/26/84	12:55	HOLD
-24	DMEB-4-4	10	soil	9/26/84	13:10	HOLD
-25	DMEB-4-5	12.5	soil	9/26/84	13:30	HOLD
-26	DMEB-4-6	15	soil	9/26/84	13:40	HOLD
-27	DMEB-4-7	17.5	soil	9/26/84	13:50	HOLD
-28	DMEB-4-8	20	soil	9/26/84	14:05	HOLD

Charles J. Soderquist
Charles J. Soderquist, PhD
Vice President

jb


Mark Masino
Director of Inorganic
Services

This report is for the sole and exclusive use of the client to whom it is addressed.
Samples not destroyed in testing are retained a maximum of thirty (30) days unless otherwise requested.

BORING DMEB
LOCATION CENTER OF CONCRETE LINED RESERVOIR

SUMMARY LOG

DEPTH	DESCRIPTION	SAMPLE #	SAMPLE DEPI.
0-3'	FILL SOIL		
3'	CONCRETE LAYER		
3-5'	CLAY/TARRY SLUDGE		
5'	CONCRETE LAYER		
5-~9'	BLACK CLAY		
9-23	OILY/TARRY SLUDGE	3	10'
	(65 ppm HNU AT 10')		COMPOSITE 12.5-20'
23'	CONCRETE		

PRIORITY POLLUTANTS DETECTED

NAPHTHALENE

PHENANTHRENE

ETHYL BENZENE

TOLUENE

BENZENE

TRANS 1,2 DICHLOROETHENE

METHYLENE CHLORIDE

TETRA CHLOROETHENE

TRICHLOROETHENE

DMEB 1
SAMPLE 3

C.A.M. METALS
Data Sheet

SAMPLE ID: DMEB-1-3

CAL ID: 19403-3

Element	Total (TTLC) Regulatory Values (mg/Kg wet wt.)	Total Found (mg/Kg)	Leachable (STLC) Regulatory Values (mg/L in leachate)	Leachable Found (mg/L)
Arsenic	500	<5	5	xxx
Antimony	500	<5	15	xxx
Barium	10000	80	100	xxx
Beryllium	75	<0.5	0.75	xxx
Cadmium	100	2.5 →	1	xxx
*Chromium III/VI	2500/500	21	560/5	xxx
Cobalt	8000	4.6	80	xxx
Copper	2500	44 →	25	xxx
Lead	1000	130 →	5	xxx
Mercury	20	0.25 →	0.2	xxx
Molybdenum	3500	<10	350	xxx
Nickel	2000	17	20	xxx
Selenium	100	<1	1	xxx
Silver	500	500 →	5	xxx
Thallium	700	<5	7	xxx
Vanadium	2400	22	24	xxx
Zinc	5000	150	250	xxx

Regulatory values from January 1984 CAM (California Department of Health Services).

*Reported as Cr III plus Cr VI.

PREPARED BY

APPROVED BY

DATE

11/1/84

DMEB 1
SAMPLE 3

EPA METHOD 625 PRIORITY POLLUTANTS
Data Sheet

CLIENT ID:DMEB-3

CAL LAB No: 19603-3

<u>PPN</u>	<u>ACID COMPOUNDS</u>	<u>ppm/Kg</u>	<u>PPN</u>	<u>BASE/NEUTRAL COMPOUNDS</u>	<u>ppm/Kg</u>
21A	2,4,6-trichlorophenol	<20000	40B	4-chlorophenyl phenyl ether	<20000
22A	p-chloro-o-cresol	<20000	41B	4-bromophenyl phenyl ether	<20000
24A	2-chlorophenol	<20000	42B	bis(2-chloroisopropyl) ether	<40000
31A	2,4-dichlorophenol	<20000	43B	bis(2-chloroethoxy) methane	<40000
34A	2,4-dimethylphenol	<20000	52B	hexachlorobutadiene	<20000
57A	2-nitrophenol	<40000	53B	hexachlorocyclopentadiene	<20000
58A	4-nitrophenol	<100000	54B	isophorone	<20000
59A	2,4-dinitrophenol	<100000	55B	naphthalene	29000 ←
60A	4,6-dinitro-o-cresol	<40000	56B	nitrobenzene	<20000
64A	Pentachlorophenol	<20000	62B	N-nitrosodiphenylamine	<20000
65A	phenol	<20000	63B	N-nitrosodipropylamine	<20000
	<u>BASE/NEUTRAL COMPOUNDS</u>		66B	bis(2-ethylhexyl)phthalate	<20000
18	acenaphthene	<20000	67B	benzyl butyl phthalate	<20000
58	benzidine	<80000	68B	di-n-butyl phthalate	<20000
88	1,2,4-trichlorobenzene	<20000	69B	di-n-octyl phthalate	<20000
98	hexachlorobenzene	<20000	70B	diethyl phthalate	<20000
128	hexachloroethane	<20000	71B	dimethyl phthalate	<20000
188	bis(2-chloroethyl)ether	<20000	72B	benzo(a)anthracene	<20000
208	2-chloronaphthalene	<20000	73B	benzo(a)pyrene	<40000
258	1,2-dichlorobenzene	<20000	74B	benzo(b)fluoranthene	<40000*
268	1,3-dichlorobenzene	<20000	75B	benzo(k)fluoranthene	<40000*
278	1,4-dichlorobenzene	<20000	76B	chrysene	<40000
288	3,3'-dichlorobenzidine	<40000	77B	acenaphthylene	<20000
358	2,4-dinitrotoluene	<40000	78B	anthracene	<20000
368	2,6-dinitrotoluene	<40000	79B	benzo(ghi)perylene	<40000
378	1,2-diphenylhydrazine (as azobenzene)	<40000	80B	fluorene	<20000
398	fluoranthene	<20000	81B	phenanthrene	24000 ←
1.	aldrin	<500	82B	dibenzo(a,h)anthracene	<40000
2.	B-BHC	<500	83B	indeno(1,2,3-cd)pyrene	<40000
3.	D-BHC	<500	84B	pyrene	<20000
4.	chlordane	<5000	8.	dieldrin	<500
5.	4,4'-DD	<500	9.	endosulfan sulfate	<1000
6.	4,4'-DD	<500	10.	endrin aldehyde	<1000
7.	4,4'-DDT	<500	11.	heptachlor	<500
			12.	heptachlor epoxide	<500
			13.	PCB	<5000
			14.	toxaphene	<10000

* - compounds co-elute - analysed as a single compound

The less-than (<) symbol means "not present at or above the indicated value (detection limit)".

Prepared by: JB

Approved by: MJM Date: 10/25/84

DMEB 1
SAMPLE 3

CLIENT ID: DMEB-1-3

CAL LAB ID: 19403-3

PPN	VOLATILES	µg/Kg
2V	acrolein	<10000
3V	acrylonitrile	<10000
4V	benzene	<2000
6V	carbon tetrachloride	<2000
7V	chlorobenzene	<2000
10V	1,2-dichloroethane	<2000
11V	1,1,1-trichloroethane	<2000
13V	1,1-dichloroethane	<2000
14V	1,1,2-trichloroethane	<2000
15V	1,1,2,2-tetrachloroethane	<2000
16V	chloroethane	<2000
19V	2-chloroethylvinyl ether	<10000
23V	chloroform	<2000
29V	1,1-dichloroethene	<2000
30V	trans-1,2-dichloroethene	<2000
32V	1,2-dichloropropane	<2000
33V	1,3-dichloropropane	<2000
—38V	ethylbenzene	1800 ←
44V	methylene chloride	<5000
45V	chloromethane	<2000
46V	bromomethane	<2000
47V	bromoform	<2000
48V	bromodichloromethane	<2000
49V	fluorotrifluoromethane	<2000
50V	dichlorodifluoromethane	<2000
51V	chlorodibromomethane	<2000
85V	tetrachloroethene	<2000
—86V	toluene	3100 ←
87V	trichloroethene	<2000
88V	v vinyl chloride	<2000

NON-PRIORITY POLLUTANT HAZARDOUS SUBSTANCES LIST COMPOUNDS

CL13	acetone	<50000
CL14	2-butanone	<50000
CL15	carbonyl sulfide	<20000
CL16	2-hexanone	<50000
CL17	4-methyl-2-pentanone	<50000
CL18	styrene	<20000
CL19	vinyl acetate	<10000
—CL20	total xylenes	15000 ←

The less-than (<) symbol means "not present at or above the indicated value (detection limit)".

Prepared by: DG
 Approved by: MWM

Date: 10/25/84

DMEB-1
SAMPLE
COMPOSITE

C.A.M. METALS
Data Sheet

SAMPLE ID: DMEB-1-4, 5, 6 & 7

CAL ID: 19403-4,5,6,7

Element	Total (TTLC) Regulatory Values (mg/Kg wet wt.)	Total Found (mg/Kg)	Leachable (STLC) Regulatory Values (mg/L in leachate)	Leachable Found (mg/L)
Arsenic	500	<5	5	xxx
Antimony	500	<5	15	xxx
Barium	10000	310 →	100	xxx
Beryllium	75	<0.5	0.75	xxx
Cadmium	100	2.6 →	1	xxx
*Chromium III/VI	2500/500	310 →	560/5	xxx
Cobalt	8000	5.0	80	xxx
Copper	2500	57 →	25	xxx
Lead	1000	250 →	5	xxx
Mercury	20	0.19	0.2	xxx
Molybdenum	3500	<10	350	xxx
Nickel	2000	38 →	20	xxx
Selenium	100	<1	1	xxx
Silver	500	<2	5	xxx
Thallium	700	<5	7	xxx
Vanadium	2400	45 →	24	xxx
Zinc	5000	2300 →	250	xxx

Regulatory values from January 1984 CAM (California Department of Health Services).

*Reported as Cr III plus Cr VI.

PREPARED BY

MW

APPROVED BY

Jdean

DATE

11/2/84

DMEB 1
COMPOSITE
SAMPLE

EPA METHOD 625 PRIORITY POLLUTANTS
Data Sheet

CLIENT ID: COMBINATION

CAL LAB No: 19603-C1

<u>PP#</u>	<u>ACID COMPOUNDS</u>	<u>ppb/Kg</u>	<u>PP#</u>	<u>BASE/NEUTRAL COMPOUNDS</u>	<u>ppb/Kg</u>
21A	2,4,6-trichlorophenol	<40000	40B	4-chlorophenyl phenyl ether	<40000
22A	p-chloro-m-cresol	<40000	41B	4-bromophenyl phenyl ether	<40000
24A	2-chlorophenol	<40000	42B	bis(2-chloroisopropyl) ether	<80000
31A	2,4-dichlorophenol	<40000	43B	bis(2-chloroethoxy) methane	<80000
36A	2,4-dimethylphenol	<40000	52B	hexachlorobutadiene	<40000
57A	2-nitrophenol	<80000	53B	hexachlorocyclopentadiene	<40000
58A	4-nitrophenol	<200000	54B	isophorone	<40000
59A	2,4-dinitrophenol	<200000	55B	naphthalene	66000
60A	4,6-dinitro-o-cresol	<80000	56B	nitrobenzene	<40000
64A	pentachlorophenol	<40000	62B	N-nitrosodiphenylamine	<40000
65A	phenol	<40000	63B	N-nitrosodipropylamine	<40000
	<u>BASE/NEUTRAL COMPOUNDS</u>		66B	bis(2-ethylhexyl)phthalate	<40000
18	acenaphthene	<40000	67B	benzyl butyl phthalate	<40000
58	benzidine	<160000	68B	di-n-butyl phthalate	<40000
88	1,2,4-trichlorobenzene	<40000	69B	di-n-octyl phthalate	<40000
98	hexachlorobenzene	<40000	70B	diethyl phthalate	<40000
12B	hexachloroethane	<40000	71B	dimethyl phthalate	<40000
18B	bis(2-chloroethyl)ether	<40000	72B	benzo(a)anthracene	<40000
20B	2-chloronaphthalene	<40000	73B	benzo(a)pyrene	<80000
25B	1,2-dichlorobenzene	<40000	74B	benzo(b)fluoranthene	<80000*
26B	1,3-dichlorobenzene	<40000	75B	benzo(k)fluoranthene	<80000*
27B	1,4-dichlorobenzene	<40000	76B	chrysene	<80000
28B	3,3'-dichlorobenzidine	<80000	77B	acenaphthylene	<40000
35B	2,4-dinitrotoluene	<80000	78B	anthracene	<40000
36B	2,6-dinitrotoluene	<80000	79B	benzo(ghi)perylene	<80000
37B	1,2-diphenylhydrazine (as azobenzene)	<80000	80B	fluorene	<40000
39B	fluoranthene	<40000	81B	phenanthrene	30000
1.	aldrin	<500	8.	dieldrin	<500
2.	B-BHC	<500	9.	endosulfan sulfate	<1000
3.	D-BHC	<500	10.	endrin aldehyde	<1000
4.	chlor dane	<5000	11.	heptachlor	<500
5.	4,4'-DDD	<500	12.	heptachlor epoxide	<500
6.	4,4'-DDE	<500	13.	PCB	<5000
7.	4,4'-DDT	<500	14.	toxaphene	<10000

* - compounds co-elute - analysed as a single compound

The less-than (<) symbol means "not present at or above the indicated value (detection limit)".

Prepared by: DB

Approved by: MJM Date: 10/25/04

EPA METHOD 624 (EXPANDED)
Data sheet

CLIENT ID:DMEB-4,5,6,7 COMPOSITE CAL LAB NO:19403-C1

VMEB 1
COMPOSITE
SAMPLE

PPB	<u>VOLATILES</u>	ppm/SE
2V	acrolein	<1000
3V	acrylonitrile	<1000
-4V	benzene	5100 ←
6V	carbon tetrachloride	<200
7V	chlorobenzene	<200
10V	1,2-dichloroethane	<200
11V	1,1,1-trichloroethane	<200
13V	1,1-dichloroethane	<200
14V	1,1,2-trichloroethane	<200
15V	1,1,2,2-tetrachloroethane	<200
16V	chloroethane	<200
19V	2-chloroethylvinyl ether	<1000
23V	chloroform	<200
29V	1,1-dichloroethene	<200
-30V	trans-1,2-dichloroethene	1100 ←
32V	1,2-dichloropropene	<200
33V	1,3-dichloropropene	<200
-38V	ethylbenzene	25000 ←
-44V	methylene chloride	7600 ←
45V	chloromethane	<200
46V	bromomethane	<200
47V	bromoform	<200
48V	bromodichloromethane	<200
49V	fluorotrichloromethane	<200
50V	dichlorodifluoromethane	<200
51V	chlorodibromomethane	<200
-85V	tetrachloroethene	22000 ←
-86V	toluene	57000 ←
-87V	trichloroethene	13000 ←
88V	v vinyl chloride	<200

NON-PRIORITY POLLUTANT HAZARDOUS SUBSTANCES LIST COMPOUNDS

CL13	acetone	<500
-CL14	2-butanone	5100 ←
CL15	carbondisulfide	<200
CL16	2-hexanone	<500
CL17	4-methyl-2-pentanone	<500
CL18	styrene	<200
CL19	vinyl acetate	<1000
-CL20	total xylenes	120000 ←

The less-than (<) symbol means "not present at or above the indicated value (detection limit)".

Prepared by: DB

Approved by: MJM

Date: 10/25/84

BORING : DMER-2
LOCATION ~ 150' WEST OF RESERVOIR EDGE

SUMMARY LOG

DEPTH	DESCRIPTION	SAMPLE #	SAMPLE DEPTH
0-3'	FILL SOIL		
3.5'	CONCRETE LAYER		
4-14'	BLACK OILY CLAY / COMPOSITE SLUDGE (6 ppm HAN AT 12.5')		5-12.5'
14-18	CLAY w/ SILT, SAND (^{NATURAL} SOIL?)	6	17.5'

PRIORITY POLLUTANTS DETECTED

NAPHTHALENE

ETHYLBENZENE

DMEB-2
COMPOSITE
SAMPLEC.A.M. METALS
Data SheetSAMPLE ID: DMEB-2-1,2,3,4CAL ID: 19403,8,9,10,11

<u>Element</u>	<u>Total (TTLC) Regulatory Values (mg/Kg wet wt.)</u>	<u>Total Found (mg/Kg)</u>	<u>Leachable (STLC) Regulatory Values (mg/L in leachate)</u>	<u>Leachable Found (mg/L)</u>
Arsenic	500	<5	5	xxx
Antimony	500	<5	15	xxx
Barium	10000	930 →	100	xxx
Beryllium	75	<0.5	0.75	xxx
Cadmium	100	1.9 →	1	xxx
*Chromium III/VI	2500/500	24	560/5	xxx
Cobalt	8000	3.9	80	xxx
Copper	2500	28 →	25	xxx
Lead	1000	280 →	5	xxx
Mercury	20	0.22 →	0.2	xxx
Molybdenum	3500	<10	350	xxx
Nickel	2000	27 →	20	xxx
Selenium	100	<1	1	xxx
Silver	500	<2	5	xxx
Thallium	700	30 →	7	xxx
Vanadium	2400	24 →	24	xxx
Zinc	5000	130	250	xxx

Regulatory values from January 1984 CAM (California Department of Health Services).

*Reported as Cr III plus Cr VI.

PREPARED BY

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11/1/84

VITTEB 2
COMPOSITE
SAMPLE

EPA METHOD 625 PRIORITY POLLUTANTS
Data Sheet

174-C
CLIENT ID: COMPOSITE 2

CAL LAB No: 19403-C2

PPM	<u>ACID COMPOUNDS</u>	PPM	<u>BASE/NEUTRAL COMPOUNDS</u>	PPM
	21A 2,4,6-trichlorophenol	<20000	40B 4-chlorophenyl phenyl ether	<20000
	22A p-chloro-m-cresol	<20000	41B 4-bromophenyl phenyl ether	<20000
	26A 2-chlorophenol	<20000	42B bis(2-chloroisopropyl) ether	<40000
	31A 2,4-dichlorophenol	<20000	43B bis(2-chlorothoxy) methane	<40000
	34A 2,4-dimethylphenol	<20000	52B hexachlorobutadiene	<20000
	57A 2-nitrophenol	<60000	53B hexachlorocyclopentadiene	<20000
	58A 4-nitrophenol	<100000	54B isophorone	<20000
	59A 2,4-dinitrophenol	<100000	55B naphthalene	13000 ←
	60A 4,6-dinitro-o-cresol	<60000	56B nitrobenzene	<20000
	64A pentachlorophenol	<20000	62B N-nitrosodiphenylamine	<20000
	65A phenol	<20000	63B N-nitrosodipropylamine	<20000
	<u>BASE/NEUTRAL COMPOUNDS</u>		66B bis(2-ethylhexyl)phthalate	<20000
	18 acenaphthene	<20000	67B benzyl butyl phthalate	<20000
	58 benzidine	<8000	68B di-n-butyl phthalate	<20000
	88 1,2,4-trichlorobenzene	<20000	69B di-n-octyl phthalate	<20000
	98 hexachlorobenzene	<20000	70B diethyl phthalate	<20000
	12B hexachloroethane	<20000	71B dimethyl phthalate	<20000
	12B bis(2-chloroethyl)ether	<20000	72B benzo(a)anthracene	<20000
	20B 2-chloronaphthalene	<20000	73B benzo(a)pyrene	<40000
	25B 1,2-dichlorobenzene	<20000	74B benzo(b)fluoranthene	<40000*
	26B 1,3-dichlorobenzene	<20000	75B benzo(k)fluoranthene	<40000*
	27B 1,4-dichlorobenzene	<20000	76B chrysene	<40000
	28B 3,3'-dichlorobenzidine	<40000	77B acenaphthylene	<20000
	35B 2,4-dinitrotoluene	<40000	78B anthracene	<20000
	36B 2,6-dinitrotoluene	<40000	79B benzo(phi)perylene	<40000
	37B 1,2-diphenylhydrazine (as azobenzene)	<40000	80B fluorene	<20000
	39B fluoranthene	<20000	81B phenanthrene	<20000
			82B dibenzo(a,h)anthracene	<40000
			83B indeno(1,2,3-cd)pyrene	<40000
			84B pyrene	<20000
	1. aldrin	<500	8. dieldrin	<500
	2. B-BHC	<500	9. endosulfan sulfate	<1000
	3. D-BHC	<5000	10. endrin aldehyde	<1000
	4. chlordane	<5000	11. heptachlor	<500
	5. 4,4'-DDO	<500	12. heptachlor epoxide	<500
	6. 4,4'-DDE	<500	13. PCB	<5000
	7. 4,4'-DDT	<500	14. toxaphene	<10000

* - compounds co-elute - analysed as a single compound

The less-than (<) symbol means "not present at or above the indicated value (detection limit)".

Prepared by: DB

Approved by: NAM Date: 10/25/04

CLIENT ID:DMEB-2-1,2,3,4

CAL LAB NO: 19403-C2

DMEB 2
COMPOSITE
SAMPLE

PPM	VOLATILES	PPM/KG
2V	acrolein	<10000
3V	acrylonitrile	<10000
4V	benzene	<2000
6V	carbon tetrachloride	<2000
7V	chlorobenzene	<2000
10V	1,2-dichloroethane	<2000
11V	1,1,1-trichloroethane	<2000
13V	1,1-dichloroethane	<2000
14V	1,1,2-trichloroethane	<2000
15V	1,1,2,2-tetrachloroethane	<2000
16V	chloroethane	<2000
19V	2-chloroethylvinyl ether	<10000
23V	chloroform	<2000
29V	1,1-dichloroethene	<2000
30V	trans-1,2-dichloroethene	<2000
32V	1,2-dichloropropene	<2000
33V	1,3-dichloropropene	<2000
38V	ethylbenzene	1900 ←
44V	methylene chloride	<5000
45V	chloromethane	<2000
46V	bromomethane	<2000
47V	bromoform	<2000
48V	bromodichloromethane	<2000
49V	fluorotrichloromethane	<2000
50V	dichlorodifluoromethane	<2000
51V	chlorodibromomethane	<2000
85V	tetrachloroethene	<2000
86V	toluene	<2000
87V	trichloroethene	<2000
88V	v vinyl chloride	<2000

NON-PRIORITY POLLUTANT HAZARDOUS SUBSTANCES LIST COMPOUNDS

CL13	acetone	<50000
CL14	2-butanone	<50000
CL15	carbonylsulfide	<20000
CL16	2-hexanone	<50000
CL17	4-methyl-2-pentanone	<50000
CL18	styrene	<20000
CL19	vinyl acetate	<10000
- CL20	total xylenes	4800 ←

The less-than (<) symbol means "not present at or above the indicated value (detection limit)".

Prepared by: JSApproved by: NJMDate: 10/25/84

DMEB 2
SAMPLE 6

C.A.M. METALS
Data Sheet

SAMPLE ID: DMEB-2-6

CAL ID: 19403-13

Element	Total (TTLC) Regulatory Values (mg/Kg wet wt.)	Total Found (mg/Kg)	Leachable (STLC) Regulatory Values (mg/L in leachate)	Leachable Found (mg/L)
Arsenic	500	<5	5	xxx
Antimony	500	<5	15	xxx
Barium	10000	120 →	100	xxx
Beryllium	75	0.65	0.75	xxx
Cadmium	100	2.0 →	1	xxx
*Chromium III/VI	2500/500	30	560/5	xxx
Cobalt	8000	12	80	xxx
Copper	2500	28 →	25	xxx
Lead	1000	<5	5	xxx
Mercury	20	0.1	0.2	xxx
Molybdenum	3500	<10	350	xxx
Nickel	2000	22 →	20	xxx
Selenium	100	<1	1	xxx
Silver	500	<2	5	xxx
Thallium	700	<5	7	xxx
Vanadium	2400	49 →	24	xxx
Zinc	5000	57	250	xxx

Regulatory values from January 1984 CAM (California Department of Health Services).

*Reported as Cr III plus Cr VI.

PREPARED BY
APPROVED BY

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DATE

4/2/84

DMEB 2
SAMPLE 6

EPA METHOD 625 PRIORITY POLLUTANTS
Data Sheet

CLIENT ID:DMEB-2-6

CAL LAB No: 19403-13

<u>PPN</u>	<u>ACID COMPOUNDS</u>	<u>ppm</u>	<u>PPN</u>	<u>BASE/NEUTRAL COMPOUNDS</u>	<u>ppm</u>
21A	2,4,6-trichlorophenol	<600	408	4-chlorophenyl phenyl ether	<600
22A	p-chloro-o-cresol	<600	418	4-bromophenyl phenyl ether	<600
26A	2-chlorophenol	<600	428	bis(2-chloroisopropyl) ether	<600
31A	2,4-dichlorophenol	<600	438	bis(2-chlorothoxy) methane	<600
36A	2,4-dimethylphenol	<600	528	hexachlorobutadiene	<600
57A	2-nitrophenol	<2000	538	hexachlorocyclopentadiene	<600
58A	4-nitrophenol	<2000	548	isophorone	<600
59A	2,4-dinitrophenol	<2000	558	naphthalene	<600
60A	4,6-dinitro-o-cresol	<600	568	nitrobenzene	<600
66A	pentachlorophenol	<600	628	N-nitrosodiphenylamine	<600
65A	phenol	<600	638	N-nitrosodipropylamine	<600
	<u>BASE/NEUTRAL COMPOUNDS</u>		668	bis(2-ethylhexyl)phthalate	<600
18	acenaphthene	<600	678	benzyl butyl phthalate	<600
58	benzidine	<1600	688	di-n-butyl phthalate	<600
68	1,2,4-trichlorobenzene	<600	698	di-n-octyl phthalate	<600
98	hexachlorobenzene	<600	708	diethyl phthalate	<600
128	hexachloroethane	<600	718	dimethyl phthalate	<600
188	bis(2-chloroethyl)ether	<600	728	benzo(a)anthracene	<600
208	2-chloronaphthalene	<600	738	benzo(a)pyrene	<600
258	1,2-dichlorobenzene	<600	748	benzo(b)fluoranthene	<600*
268	1,3-dichlorobenzene	<600	758	benzo(k)fluoranthene	<600*
278	1,4-dichlorobenzene	<600	768	chrysene	<600
288	3,3'-dichlorobenzidine	<800	778	acenaphthylene	<600
358	2,4-dinitrotoluene	<800	788	anthracene	<600
368	2,6-dinitrotoluene	<800	798	benzo(ghi)perylene	<600
378	1,2-diphenylhydrazine (as azobenzene)	<800	808	fluorene	<600
398	fluoranthene	<600	818	phenanthrene	<600
			828	dibenzo(a,h)anthracene	<600
			838	indeno(1,2,3-cd)pyrene	<600
			848	pyrene	<600
1.	aldrin	<500	8.	dieldrin	<500
2.	B-BHC	<500	9.	endosulfan sulfate	<1000
3.	D-BHC	<500	10.	endrin aldehyde	<1000
4.	chlordecone	<5000	11.	heptachlor	<500
5.	4,4'-DDD	<500	12.	heptachlor epoxide	<500
6.	4,4'-DDT	<500	13.	PCB	<5000
7.	4,4'-DDT	<500	14.	toxaphene	<10000

* - compounds co-elute - analysed as a single compound

The less-than (<) symbol means "not present at or above the indicated value (detection limit)".

Prepared by: DB

Approved by: MW Date: 10/25/84

DMEB 2
SAMPLE 6

CLIENT ID:DMEB-2-6

CAL LAB NO:19403-13

PPN	VOLATILES	ppm/Kg
2V	acrolein	<1000
3V	acrylonitrile	<1000
4V	benzene	<200
6V	carbon tetrachloride	<200
7V	chlorobenzene	<200
10V	1,2-dichloroethane	<200
11V	1,1,1-trichloroethane	<200
13V	1,1-dichloroethane	<200
14V	1,1,2-trichloroethane	<200
15V	1,1,2,2-tetrachloroethane	<200
16V	chloroethane	<200
19V	2-chloroethylvinyl ether	<1000
23V	chloroform	<200
29V	1,1-dichloroethene	<200
30V	trans-1,2-dichloroethene	<200
32V	1,2-dichloropropane	<200
33V	1,3-dichloropropane	<200
38V	ethylbenzene	<500
44V	methylene chloride	<500
45V	chloromethane	<200
46V	bromomethane	<200
47V	bromoform	<200
48V	bromodichloromethane	<200
49V	fluorotrichloromethane	<200
50V	dichlorodifluoromethane	<200
51V	chlorodibromomethane	<200
85V	tetrachloroethene	<200
86V	toluene	<200
87V	trichloroethene	<200
88V	vinyl chloride	<200

NON-PRIORITY POLLUTANT HAZARDOUS SUBSTANCES LIST COMPOUNDS

CL13	acetone	<500
CL14	2-butanone	<500
CL15	carbonyl sulfide	<200
CL16	2-hexanone	<500
CL17	4-methyl-2-pentanone	<500
CL18	styrene	<200
CL19	vinyl acetate	<1000
CL20	total xylenes	<200

The less-than (<) symbol means "not present at or above the indicated value (detection limit)".

Prepared by: DBApproved by: MMLDate: 10/25/84

SAMPLE #		DESCRIPTIVE	SHAMRE DESC	0-8 FT SOIL, TRASH	8-24.5 FT SILT [SUBSTRATE]	21.5-23.5' CLAY/SILT SILT	22.5'	NO PRIORITY POLLUTANTS IDENTIFIED
11								

LOCATION ~ 200' NORTH-NORTHEAST OF RESERVE EDGE
BORILLA DMEB-3

SAMPLE 9

C.A.M. METALS
Data Sheet

SAMPLE ID: DMEB-3-9CAL ID: 19403-19

<u>Element</u>	<u>Total (TTLC) Regulatory Values (mg/Kg wet wt.)</u>	<u>Total Found (mg/Kg)</u>	<u>Leachable (STLC) Regulatory Values (mg/L in leachate)</u>	<u>Leachable Found (mg/L)</u>
Arsenic	500	30 →	5	xxx
Antimony	500	<5	15	xxx
Barium	10000	53	100	xxx
Beryllium	75	<0.5	0.75	xxx
Cadmium	100	0.5	1	xxx
*Chromium III/VI	2500/500	7.1	560/5	xxx
Cobalt	8000	3.6	80	xxx
Copper	2500	9.4	25	xxx
Lead	1000	<5	5	xxx
Mercury	20	<0.1	0.2	xxx
Molybdenum	3500	<10	350	xxx
Nickel	2000	6.6	20	xxx
Selenium	100	<1	1	xxx
Silver	500	<2	5	xxx
Thallium	700	<5	7	xxx
Vanadium	2400	14	24	xxx
Zinc	5000	22	250	xxx

Regulatory values from January 1984 CAM (California Department of Health Services).

*Reported as Cr III plus Cr VI.

PREPARED BY

MW

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DATE

1/2/84

DMED 3
SAMPLE 9

EPA METHOD 625 PRIORITY POLLUTANTS
Data Sheet

CLIENT ID:DMED-3-9

CAL LAB No: 19403-19

PPN	<u>ACID COMPOUNDS</u>	ppm	PPN	<u>BASE/NEUTRAL COMPOUNDS</u>	ppm
21A	2,4,6-trichlorophenol	<200	40B	4-chlorophenyl phenyl ether	<200
22A	p-chloro-m-cresol	<200	41B	4-bromophenyl phenyl ether	<200
26A	2-chlorophenol	<200	42B	bis(2-chloroisopropyl) ether	<400
31A	2,4-dichlorophenol	<200	43B	bis(2-chlorothoxy) methane	<400
34A	2,4-dimethylphenol	<200	52B	hexachlorobutadiene	<200
57A	2-nitrophenol	<400	53B	hexachlorocyclopentadiene	<200
58A	4-nitrophenol	<1000	54B	isophorone	<200
59A	2,4-dinitrophenol	<1000	55B	naphthalene	<200
60A	4,6-dinitro-o-cresol	<400	56B	nitrobenzene	<200
64A	pentachlorophenol	<200	62B	N-nitrosodiphenylamine	<200
65A	phenol	<200	63B	N-nitrosodipropylamine	<200
	<u>BASE/NEUTRAL COMPOUNDS</u>		66B	bis(2-ethylhexyl)phthalate	<200
18	acenaphthene	<200	67B	benzyl butyl phthalate	<200
58	benzidine	<200	68B	di-n-butyl phthalate	<200
88	1,2,4-trichlorobenzene	<200	69B	di-n-octyl phthalate	<200
98	hexachlorobenzene	<200	70B	diethyl phthalate	<200
129	hexachloroethane	<200	71B	dimethyl phthalate	<200
188	bis(2-chloroethyl)ether	<200	72B	benzo(a)anthracene	<200
208	2-chloronaphthalene	<200	73B	benzo(a)pyrene	<400
258	1,2-dichlorobenzene	<200	74B	benzo(b)fluoranthene	<400*
268	1,3-dichlorobenzene	<200	75B	benzo(k)fluoranthene	<400*
278	1,4-dichlorobenzene	<200	76B	chrysene	<400
308	3,3'-dichlorobenzidine	<400	77B	acenaphthylene	<200
358	2,4-dinitrotoluene	<400	78B	anthracene	<200
368	2,6-dinitrotoluene	<400	79B	benzo(ghi)perylene	<400
378	1,2-diphenylhydrazine (as azobenzene)	<400	80B	fluorene	<200
398	fluoranthene	<200	81B	phenanthrene	<200
1.	aldrin	<500	82B	dibenz(a,h)anthracene	<400
2.	B-BHC	<500	83B	indeno(1,2,3-cd)pyrene	<400
3.	D-BHC	<500	84B	pyrene	<200
4.	chlordane	<5000	8.	dieldrin	<500
5.	4,4'-DDD	<500	9.	endosulfan sulfate	<1000
6.	4,4'-DDT	<500	10.	endrin aldehyde	<1000
7.	4,4'-DDT	<500	11.	heptachlor	<500
			12.	heptachlor epoxide	<500
			13.	PCB	<5000
			14.	toxaphene	<10000

* - compounds co-elute - analysed as a single compound

The less-than (<) symbol means "not present at or above the indicated value (detection limit)".

Prepared by: DB

Approved by: MAM Date: 10/25/84

DMEB 3
SAMPLE 9

CLIENT ID: DMEB-3-9

CAL LAB NO: 19403-19

<u>P#</u>	<u>VOLATILES</u>	<u>ppm/Kg</u>
2V	acrolein	<1000
3V	acrylonitrile	<1000
4V	benzene	<200
6V	carbon tetrachloride	<200
7V	chlorobenzene	<200
10V	1,2-dichloroethane	<200
11V	1,1,1-trichloroethane	<200
13V	1,1-dichloroethane	<200
14V	1,1,2-trichloroethane	<200
15V	1,1,2,2-tetrachloroethane	<200
16V	chloroethane	<200
19V	2-chloroethylvinyl ether	<1000
23V	chloroform	<200
29V	1,1-dichloroethene	<200
30V	trans-1,2-dichloroethene	<200
32V	1,2-dichloropropene	<200
33V	1,3-dichloropropene	<200
38V	ethylbenzene	<500
44V	methylene chloride	<500
45V	chloromethane	<200
46V	bromomethane	<200
47V	bromoform	<200
48V	bromodichloromethane	<200
49V	fluorotrichloromethane	<200
50V	dichlorodifluoromethane	<200
51V	chlorodibromomethane	<200
85V	tetrachloroethene	<200
86V	toluene	<200
87V	trichloroethene	<200
88V	vinyl chloride	<200

NON-PRIORITY POLLUTANT HAZARDOUS SUBSTANCES LIST COMPOUNDS

CL13	acetone	<500
CL14	2-butanone	<500
CL15	carbonyl disulfide	<200
CL16	2-hexanone	<500
CL17	4-methyl-2-pentanone	<500
CL18	styrene	<200
CL19	vinyl acetate	<1000
CL20	total xylenes	<200

The less-than (<) symbol means "not present at or above the indicated value (detection limit)".

Prepared by: DBApproved by: MWDate: 10/25/84

VINCE S
SAMPLE 10

C.A.M. METALS
Data Sheet

SAMPLE ID: DMEB-10
3-
A

CAL ID: 19403-20

Element	Total (TTLC) Regulatory Values (mg/Kg wet wt.)	Total Found (mg/Kg)	Leachable (STLC) Regulatory Values (mg/L in leachate)	Leachable Found (mg/L)
Arsenic	500	<5	5	xxx
Antimony	500	<5	15	xxx
Barium	10000	95	100	xxx
Beryllium	75	<0.5	0.75	xxx
Cadmium	100	1.6 →	1	xxx
*Chromium III/VI	2500/500	18	560/5	xxx
Cobalt	8000	7.6	80	xxx
Copper	2500	17	25	xxx
Lead	1000	<5	5	xxx
Mercury	20	<0.1	0.2	xxx
Molybdenum	3500	<10	350	xxx
Nickel	2000	14	20	xxx
Selenium	100	<1	1	xxx
Silver	500	<2	5	xxx
Thallium	700	<5	7	xxx
Vanadium	2400	32 →	24	xxx
Zinc	5000	42	250	xxx

Regulatory values from January 1984 CAM (California Department of Health Services).

*Reported as Cr III plus Cr VI.

PREPARED BY

APPROVED BY

DATE

1/2/84

DMES 3
SAMPLE 10

EPA METHOD 625 PRIORITY POLLUTANTS
Data Sheet

CLIENT ID:MEB-3-10

CAL LAB No: 19403-20

P#	ACID COMPOUNDS	ML/KG	P#	BASE/NEUTRAL COMPOUNDS	ML/KG
21A	2,4,6-trichlorophenol	<200	408	4-chlorophenyl phenyl ether	<200
22A	p-chloro-m-cresol	<200	418	4-bromophenyl phenyl ether	<200
24A	2-chlorophenol	<200	428	bis(2-chloroisopropyl) ether	<400
31A	2,4-dichlorophenol	<200	438	bis(2-chloroethoxy) methane	<400
34A	2,4-dimethylphenol	<200	528	hexachlorobutadiene	<200
57A	2-nitrophenol	<400	538	hexachlorocyclopentadiene	<200
58A	4-nitrophenol	<1000	548	isophorone	<200
59A	2,4-dinitrophenol	<1000	558	naphthalene	<200
60A	4,6-dinitro-o-cresol	<400	568	nitrobenzene	<200
64A	pentachlorophenol	<200	628	N-nitrosodiphenylamine	<200
65A	phenol	<200	638	N-nitrosodipropylamine	<200
	<u>BASE/NEUTRAL COMPOUNDS</u>		668	bis(2-ethylhexyl)phthalate	<200
18	acenaphthene	<200	678	benzyl butyl phthalate	<200
58	benzidine	<800	688	di-n-butyl phthalate	<200
88	1,2,4-trichlorobenzene	<200	708	diethyl phthalate	<200
98	hexachlorobenzene	<200	718	dimethyl phthalate	<200
128	hexachloroethane	<200	728	benzo(a)anthracene	<200
188	bis(2-chloroethyl)ether	<200	738	benzo(a)pyrene	<400
208	2-chloronaphthalene	<200	768	benzo(b)fluoranthene	<400*
258	1,2-dichlorobenzene	<200	778	benzo(k)fluoranthene	<400*
268	1,3-dichlorobenzene	<200	778	chrysene	<400
278	1,4-dichlorobenzene	<200	778	acenaphthylene	<200
288	3,3'-dichlorobenzidine	<400	788	anthracene	<200
358	2,4-dinitrotoluene	<400	798	benzo(ghi)perylene	<400
368	2,6-dinitrotoluene	<400	808	fluorene	<200
378	1,2-diphenylhydrazine (as azobenzene)	<400	818	phenanthrene	<200
398	fluoranthene	<200	828	dibenzo(a,h)anthracene	<400
			838	indeno(1,2,3-cd)pyrene	<400
			848	pyrene	<200
1.	aldrin	<500	8.	dieldrin	<500
2.	B-BNC	<500	9.	endosulfan sulfate	<1000
3.	D-BNC	<500	10.	endrin aldehyde	<1000
4.	chlordecone	<5000	11.	heptachlor	<500
5.	4,4'-DDD	<500	12.	heptachlor epoxide	<500
6.	4,4'-DDE	<500	13.	PCB	<5000
7.	4,4'-DDT	<500	14.	toxaphene	<10000

* - compounds co-elute - analysed as a single compound

The less-than (<) symbol means "not present at or above the indicated value (detection limit)".

Prepared by: DB

Approved by: MJM Date: 10/25/84

VIALED 3
SAMPLE 10

CLIENT ID:DMEB-3-10

CAL LAB NO:19603-20

<u>PPM</u>	<u>VOLATILES</u>	<u>MB/Kg</u>
2V	acrolein	<1000
3V	acrylonitrile	<1000
4V	benzene	<200
6V	carbon tetrachloride	<200
7V	chlorobenzene	<200
10V	1,2-dichloroethane	<200
11V	1,1,1-trichloroethane	<200
13V	1,1-dichloroethane	<200
14V	1,1,2-trichloroethane	<200
15V	1,1,2,2-tetrachloroethane	<200
16V	chloroethane	<200
19V	2-chloroethylvinyl ether	<1000
23V	chloroform	<200
29V	1,1-dichloroethene	<200
30V	trans-1,2-dichloroethene	<200
32V	1,2-dichloropropane	<200
33V	1,3-dichloropropane	<200
38V	ethylbenzene	<500
44V	methylene chloride	<500
45V	chloromethane	<200
46V	bromomethane	<200
47V	bromoform	<200
48V	bromodichloromethane	<200
49V	fluorotrichloromethane	<200
50V	dichlorodifluoromethane	<200
51V	chlorodibromomethane	<200
85V	tetrachloroethene	<200
86V	toluene	<200
87V	trichloroethene	<200
88V	v vinyl chloride	<200

NON-PRIORITY POLLUTANT HAZARDOUS SUBSTANCES LIST COMPOUNDS

CL13	acetone	<500
CL14	2-butanone	<500
CL15	carbondisulfide	<200
CL16	2-hexanone	<500
CL17	4-methyl-2-pentanone	<500
CL18	styrene	<200
CL19	vinyl acetate	<1000
CL20	total xylenes	<200

The less-than (<) symbol means "not present at or above the indicated value (detection limit)".

Prepared by: DBApproved by: MJMDate: 10/25/84

BORING DMEB 4
LOCATION ~200' EAST-SOUTHEAST OF RESERVOIR EDGE

SUMMARY LOG

DEPTH	DESCRIPTION	SAMPLE #	SAMPLE DEF
0-4	FILL SOIL		
4-9	CLAY/SILT, OILY	2	5
9-18.5	SILTY CLAY		
18.5-20	CLAYEY SAND		

PRIORITY POLLUTANTS IDENTIFIED

BENZO ANTHRACENE

BENZO PYRENE

BENZO(K) FLOURANTHENE

CHRYSENE

BENZO (GH) PERYLENE

INDENO (1,2,3 CD) PYRENE

PYRENE

FLOURANTHENE

VIII
SAMPLE 2

C.A.M. METALS
Data Sheet

SAMPLE ID: DMEB-4-2

CAL ID: 19403-22

<u>Element</u>	<u>Total (TTLC) Regulatory Values (mg/Kg wet wt.)</u>	<u>Total Found (mg/Kg)</u>	<u>Leachable (STLC) Regulatory Values (mg/L in leachate)</u>	<u>Leachable Found (mg/L)</u>
Arsenic	500	<5	5	xxx
Antimony	500	<5	15	xxx
Barium	10000	320 →	100	xxx
Beryllium	75	<0.5	0.75	xxx
Cadmium	100	1.9 →	1	xxx
*Chromium III/VI	2500/500	27	560/5	xxx
Cobalt	8000	9.2	80	xxx
Copper	2500	34 →	25	xxx
Lead	1000	17 →	5	xxx
Mercury	20	<0.1	0.2	xxx
Molybdenum	3500	<10	350	xxx
Nickel	2000	23 →	20	xxx
Selenium	100	<1	1	xxx
Silver	500	<2	5	xxx
Thallium	700	<5	7	xxx
Vanadium	2400	32 →	24	xxx
Zinc	5000	220	250	xxx

Regulatory values from January 1984 CAM (California Department of Health Services).

*Reported as Cr III plus Cr VI.

PREPARED BY

W.H.

APPROVED BY

W.H.

DATE

11/2/84

DMEB 4
SAMPLE 2

EPA METHOD 625 PRIORITY POLLUTANTS
Data Sheet

CLIENT ID:DMEB-4-2

CAL LAB No: 19403-22

<u>PPN</u>	<u>ACID COMPOUNDS</u>	<u>ppm/Kg</u>	<u>PPN</u>	<u>BASE/NEUTRAL COMPOUNDS</u>	<u>ppm/Kg</u>
21A	2,4,6-trichlorophenol	<200	40B	4-chlorophenyl phenyl ether	<200
22A	p-chloro-o-cresol	<200	41B	4-bromophenyl phenyl ether	<200
26A	2-chlorophenol	<200	42B	bis(2-chloroisopropyl) ether	<600
31A	2,4-dichlorophenol	<200	43B	bis(2-chloroethoxy) methane	<600
34A	2,4-dimethylphenol	<200	52B	hexachlorobutadiene	<200
57A	2-nitrophenol	<600	53B	hexachlorocyclopentadiene	<200
58A	4-nitrophenol	<1000	54B	isophorone	<200
59A	2,4-dinitrophenol	<1000	55B	naphthalene	<200
60A	4,6-dinitro-o-cresol	<600	56B	nitrobenzene	<200
64A	pentachlorophenol	<200	62B	N-nitroso diphenylamine	<200
65A	phenol	<200	63B	N-nitroso dipropylamine	<200
	<u>BASE/NEUTRAL COMPOUNDS</u>		66B	bis(2-ethylhexyl)phthalate	<200
1B	acenaphthene	<200	67B	benzyl butyl phthalate	<200
5B	benzidine	<200	68B	di-n-butyl phthalate	<200
6B	1,2,4-trichlorobenzene	<200	70B	diethyl phthalate	<200
9B	hexachlorobenzene	<200	71B	dimethyl phthalate	<200
12B	hexachloroethane	<200	72B	benzo(a)anthracene	380
12B	bis(2-chloroethyl)ether	<200	73B	benzo(a)pyrene	1100
20B	2-chloronaphthalene	<200	74B	benzo(b)fluoranthene	<400*
25B	1,2-dichlorobenzene	<200	75B	benzo(k)fluoranthene	1500
26B	1,3-dichlorobenzene	<200	76B	chrysene	460
27B	1,4-dichlorobenzene	<200	77B	acenaphthylene	<200
28B	3,3'-dichlorobenzidine	<600	78B	anthracene	<200
35B	2,4-dinitrotoluene	<600	79B	benzo(phi)perylene	200
36B	2,6-dinitrotoluene	<600	80B	fluorene	<200
37B	1,2-diphenylhydrazine (as azobenzene)	<600	81B	phenanthrene	<200
39B	fluoranthene	→ 210	82B	dibenzo(a,h)anthracene	<400
			83B	indeno(1,2,3-cd)pyrene	300
			84B	pyrene	160
1.	aldrin	<500	8.	ieldrin	<500
2.	B-BHC	<500	9.	endosulfan sulfate	<1000
3.	D-BHC	<500	10.	endrin aldehyde	<1000
4.	chlordecone	<5000	11.	heptachlor	<500
5.	4,4'-DDD	<500	12.	heptachlor epoxide	<500
6.	4,4'-DDE	<500	13.	PCB	<5000
7.	4,4'-DDT	<500	14.	toxaphene	<10000

* - compounds co-elute - analysed as a single compound
The less-than (<) symbol means "not present at or above the indicated value (detection limit)".

Prepared by: DB

Approved by: MJM Date: 10/25/89

TPA METHOD 626 (EXPANDED)
Data sheetDMEB 4
SAMPLE 2

CLIENT ID:DMEB-4-2

CAL LAB NO:19403-22

<u>PPM</u>	<u>VOLATILES</u>	<u>ppm/lb</u>
2V	acrolein	<1000
3V	acrylonitrile	<1000
4V	benzene	<200
6V	carbon tetrachloride	<200
7V	chlorobenzene	<200
10V	1,2-dichloroethane	<200
11V	1,1,1-trichloroethane	<200
13V	1,1-dichloroethane	<200
14V	1,1,2-trichloroethane	<200
15V	1,1,2,2-tetrachloroethane	<200
16V	chloroethane	<200
19V	2-chloroethylvinyl ether	<1000
23V	chloroform	<200
29V	1,1-dichloroethene	<200
30V	trans-1,2-dichloroethene	<200
32V	1,2-dichloropropene	<200
33V	1,3-dichloropropene	<200
38V	ethylbenzene	<500
44V	methylene chloride	<500
45V	chloromethane	<200
46V	bromomethane	<200
47V	bromoform	<200
48V	bromodichloromethane	<200
49V	fluorotrifluoromethane	<200
50V	dichlorodifluoromethane	<200
51V	chlorodibromomethane	<200
85V	tetrachloroethene	<200
86V	toluene	<200
87V	trichloroethene	<200
88V	vinyl chloride	<200

NON-PRIORITY POLLUTANT HAZARDOUS SUBSTANCES LIST COMPOUNDS

CL13	acetone	<500
CL14	2-butanone	<500
CL15	carbonylsulfide	<200
CL16	2-hexanone	<500
CL17	4-methyl-2-pentanone	<500
CL18	styrene	<200
CL19	vinyl acetate	<1000
CL20	total xylenes	<200

The less-than (<) symbol means "not present at or above the indicated value (detection limit)".

Prepared by: DBApproved by: MJMDate: 10/25/84